

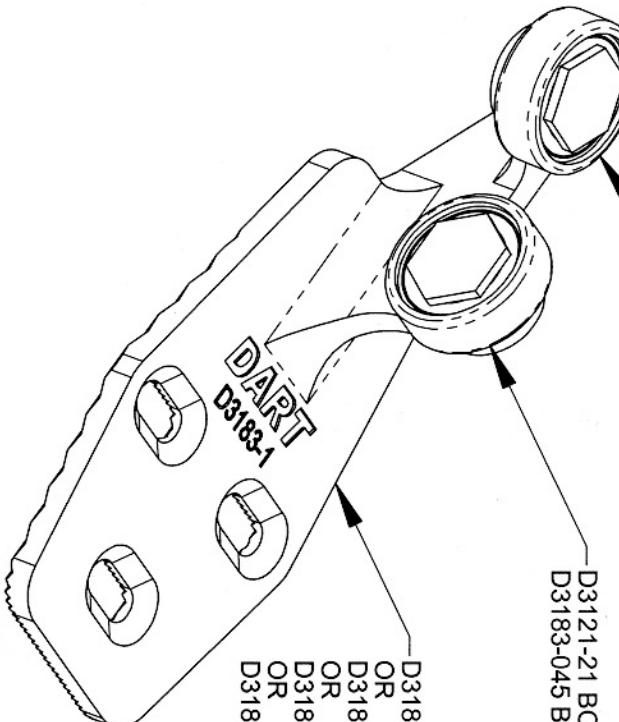
**DART**

DESIGN	DRAWN BY <i>JP</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO. <b>D3183</b>	REV. C SHEET 1 OF 4
DATE	04.02.17	TITLE <b>BRACKET ASSEMBLY</b>	SCALE 1:1
A	03.01.24	NEW ISSUE	
B	03.06.17	REMOVE BEARING; 1.012 WS 0.882	
C	04.02.17	ADD -045/-9; 0.182 WAS 0.431	
C1	04.11.09	0.830 WAS 0.850	

**RELEASED**  
*04.03.01*  
**DETACHED**

D3121-21 BOLT<sup>(1)</sup>  
D3183-045 BEARING ASSEMBLY (1)

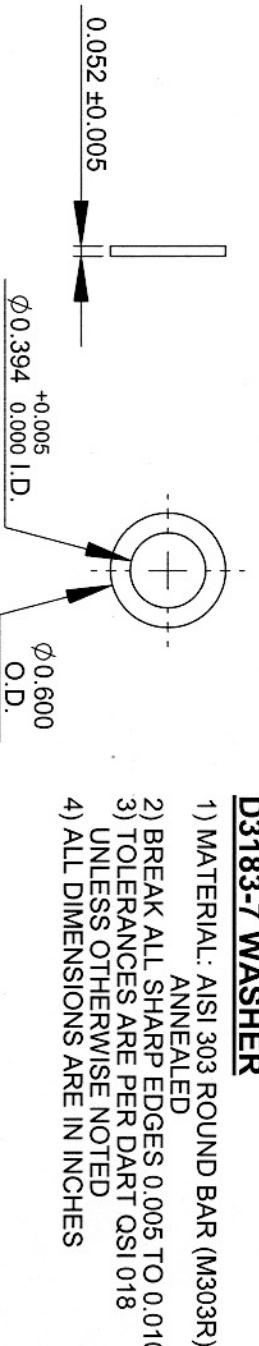
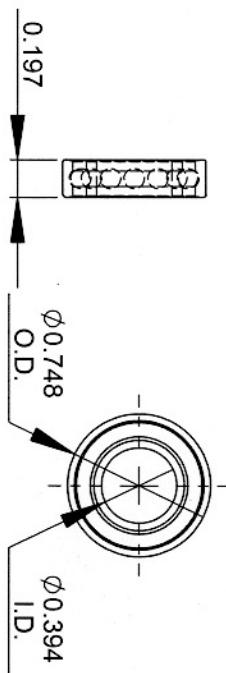
D3183-1 BRACKET FOR -041 (SHOWN)  
OR  
D3183-2 BRACKET FOR -042 (OPPOSITE)  
OR  
D3183-3 BRACKET FOR -043 (SIMILAR)  
OR  
D3183-4 BRACKET FOR -044 (SIMILAR)



**D3183-041 BRACKET ASSEMBLY (SHOWN)**  
**D3183-042 BRACKET ASSEMBLY (OPPOSITE)**  
**D3183-043 BRACKET ASSEMBLY (SIMILAR)**  
**D3183-044 BRACKET ASSEMBLY (SIMILAR)**

**D3183-5 BEARING:  
SPECIFICATION CONTROL DRAWING**

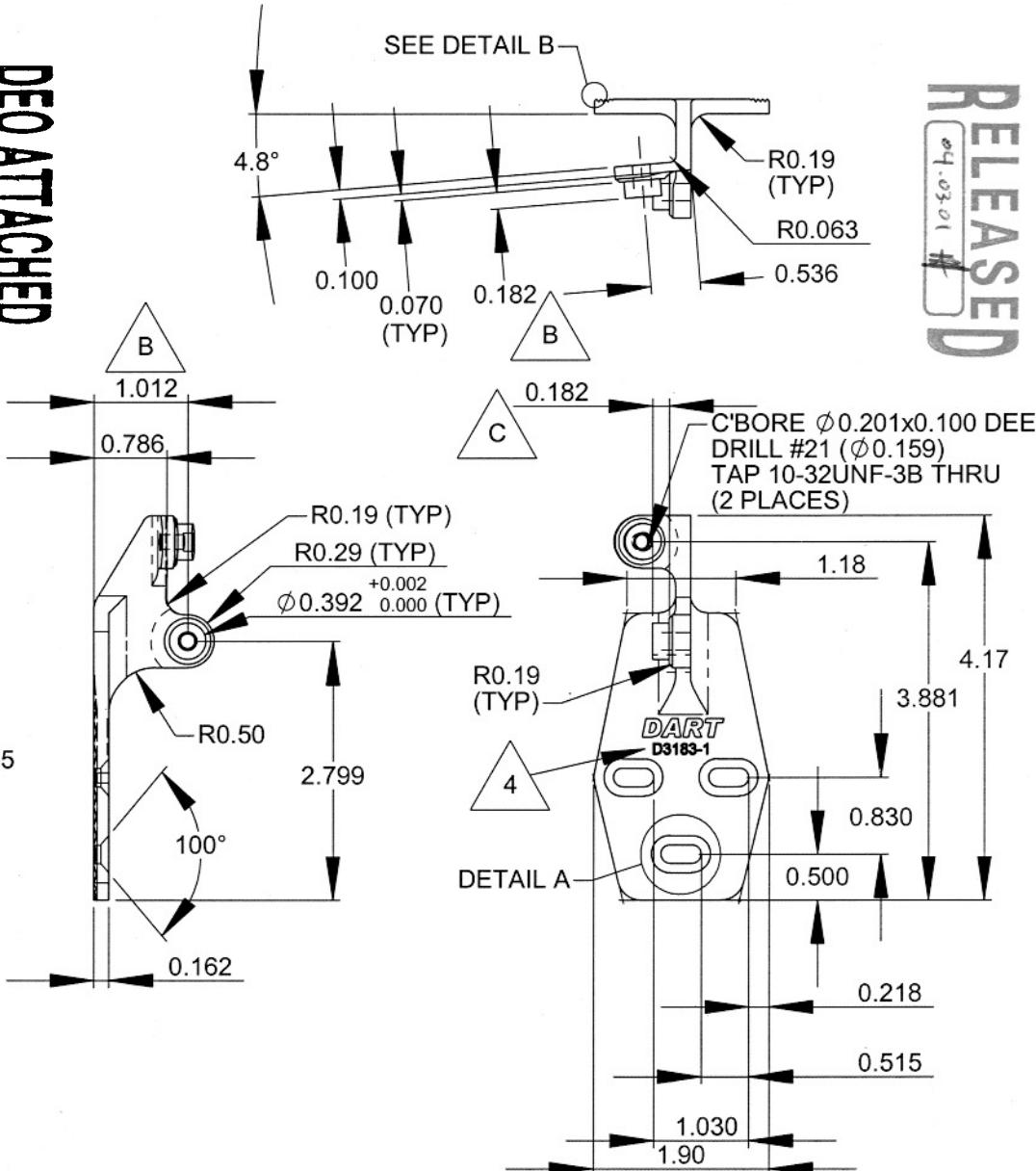
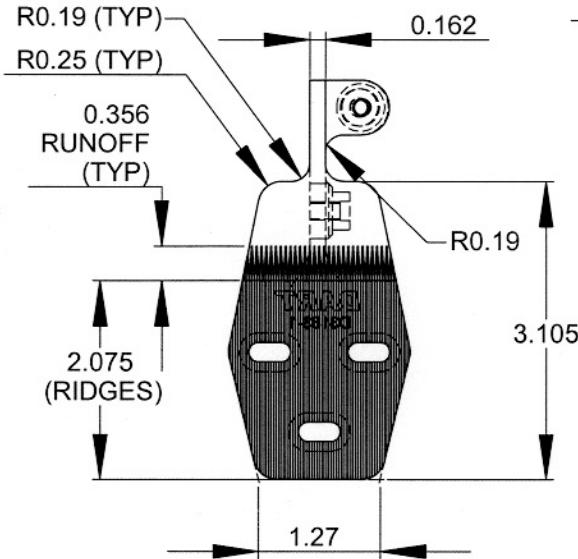
- 1) SINGLE ROW, DEEP GROOVE,  
CONRAD TYPE, SHIELDED
- 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES



**D3183-7 WASHER**

- 1) MATERIAL: AISI 303 ROUND BAR (M303R)  
ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018  
UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

**DEO ATTACHED**



D3183-1 BRACKET SHOWN  
D3183-2 BRACKET OPPOSITE

- 1) D3183-1 CAN BE MADE FROM D3183-3  
D3183-2 CAN BE MADE FROM D3183-4
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643  
(REF DART SPEC. M17-4-B)  
MIN ULTIMATE STRENGTH = 150 ksi  
MIN YIELD STRENGTH = 100 ksi
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 4) ENGRAVE DART P/N & LOGO AS SHOWN
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS  
OTHERWISE NOTED
- 6) ALL DIMENSIONS ARE IN INCHES

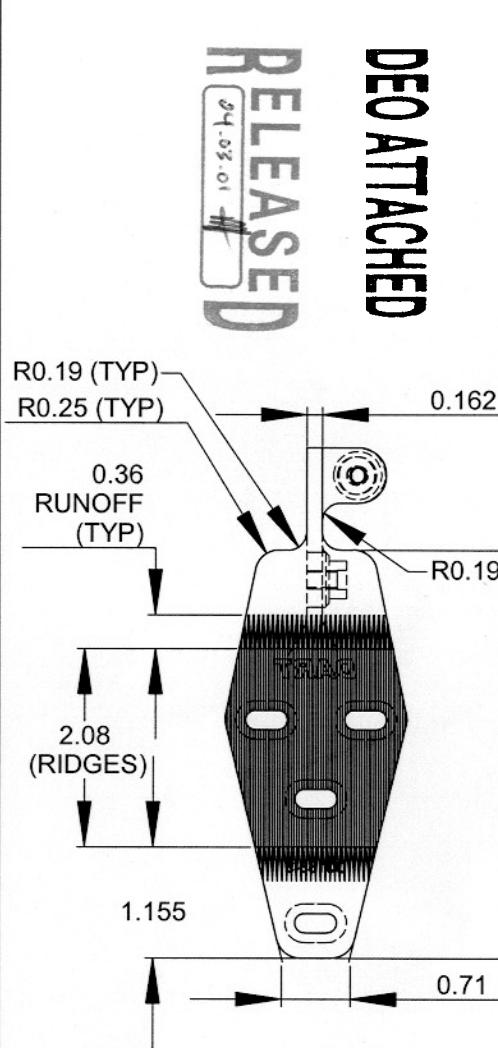
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DART



DESIGN	DRAWN BY <i>DP</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3183
DATE 04.02.17	TITLE BRACKET ASSEMBLY	REV. C SHEET 2 OF 4 SCALE 1:12



D3183-3 BRACKET SHOWN  
(REPLACES BELL P/N 412-030-304-105)

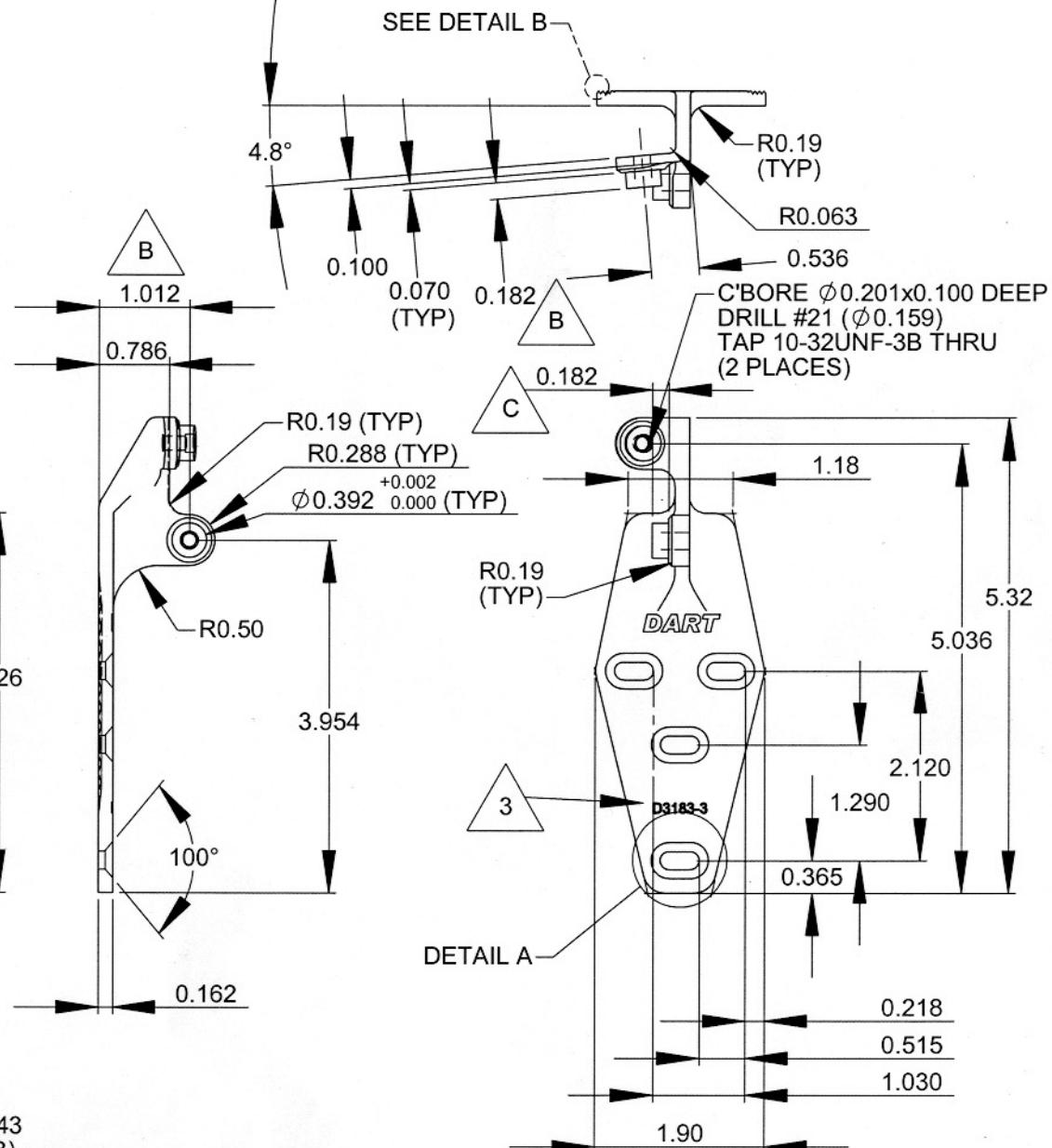
D3183-4 BRACKET OPPOSITE  
(REPLACES BELL P/N 412-030-304-106)

1) MATERIAL: 17-4 SS PER AMS 5604/5643  
(REF DART SPEC. M17-4-B)  
MIN ULTIMATE STRENGTH = 150 ksi  
MIN YIELD STRENGTH = 100 ksi

2) BREAK ALL SHARP EDGES 0.005 TO 0.015

3) ENGRAVE DART P/N & LOGO AS SHOWN

4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED  
5) ALL DIMENSIONS ARE IN INCHES



DESIGN	DRAWN BY	<b>DART</b>
CHECKED	APPROVED	<i>[Signature]</i>
DATE	DRAWING NO.	D3183
04.02.17	TITLE	BRACKET ASSEMBLY
	SHEET 3 OF 4	
	REV. C	
	SCALE	1:2

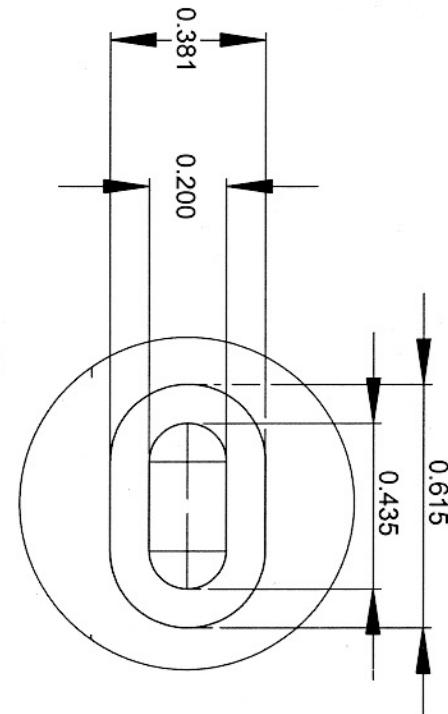
**DART**

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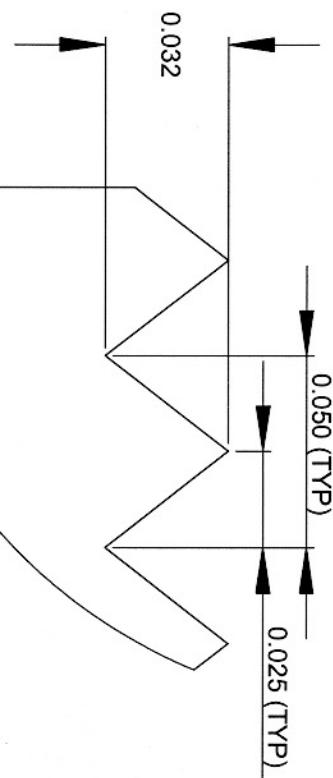
**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

**DART**

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. C
		D3183	SHEET 4 OF 4
DATE	04.02.17	TITLE	SCALE
		BRACKET ASSEMBLY	1:1



DETAIL A (2 : 1)

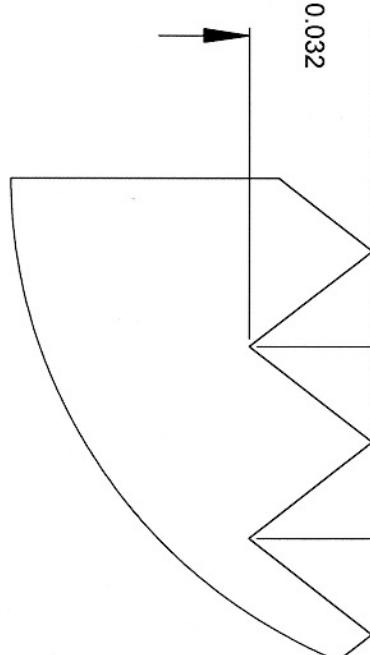


**RELEASED**  
04-03-01

**DETACH**

**DETACH**

DETAIL B (20 : 1)



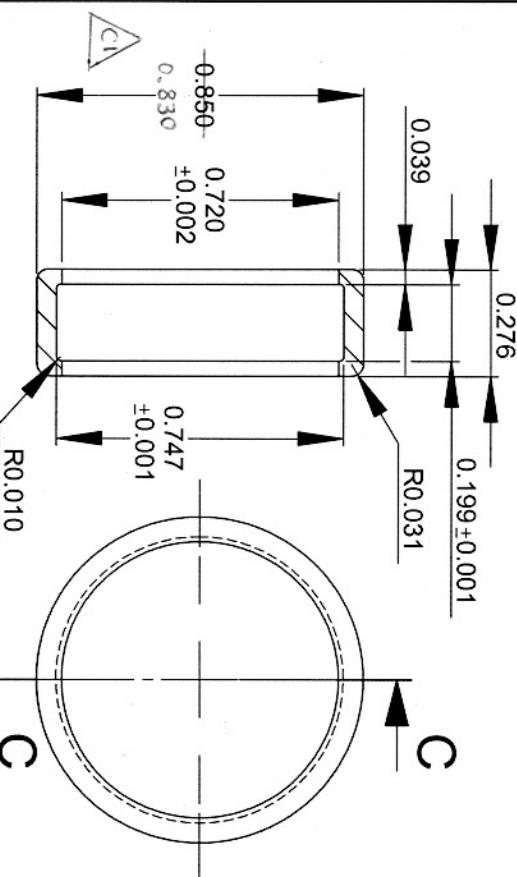
**D3183-9 CAP**

- 1) MATERIAL: DELRIN ROD, Ø1.00  
(REF DART SPEC. M-DELRIN-R1.00)
- 2) TOLERANCES ARE PER DART QSI 018  
UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES

**D3183-045 BEARING ASSEMBLY**

- 1) ASSEMBLE D3183-5 BEARING AND  
D3183-9 CAP

SECTION C-C  
SCALE 2:1



DRAWING NO.	TITLE	REV/C1	DART AEROSPACE LTD ENGINEERING ORDER	D.E.O. NO.	SHEET NO.	SCALE
D3183	BRACKET ASSEMBLY			D3183-C1-1	SHEET 1 OF 1	NTS
DRAWN	PO	CHECKED	MFG. APPR.	APPROVED	DE APPR.	
DATE	10.05.14	DATE	10.06.30	DATE	10/06/30	DATE 10/06/30

D3183-5 BEARING

ADD POSSIBLE SUPPLIER: KML P/N 6800-2Z

BASIC LOAD RATING REQUIREMENT: Cr = 1720 N (386 lb) MIN [DYNAMIC]  
Cor = 840 N (188 lb) MIN [STATIC]

REF PAR 10-012

RELEASED  
R 2010-07-22  
*[Signature]*